

In the Claims

1. (Currently Amended) A disc brake for vehicles comprising:
a round disc rotating with a wheel;
pads installed at both sides of said disc for generating frictional force;
pincer-shaped calipers supporting said pads;
an electric heat-generating circuit installed within said discs to generate heat and dry said disc when current flows; and

electromagnetic induction means for generating a current to said electric heat-generating circuit by using electromagnetic induction via formation of a magnetic field ~~The disc brake as defined in claim 1,~~ wherein said electromagnetic induction means comprises:

electromagnets, each installed in both prongs of said caliper to allow an N pole and a S pole to face therebetween, such that when electric power is applied, a magnetic field can be formed in the axial direction of said disc; and

electric power supply means supplying electric power to said electromagnets for magnetization thereof.

2. (Canceled)
3. (Currently Amended) The disc brake as defined in claim 2 1, wherein said electromagnets are evenly distributed at both prongs of said caliper.
4. (Currently Amended) The disc brake as defined in claim 2 1, wherein said electromagnets are so installed as to be automatically magnetized when a wetness measuring sensor installed inside a brake for measuring wetness discriminates that discs and pads become drenched above a prescribed level.
5. (Currently Amended) The disc brake as defined in claim 2 1, wherein said electromagnets are connected to a relay of a wiper so as to be magnetized by operation frequency of said wiper.
6. (Canceled)

7. (Original) The disc brake as defined in claim 1, wherein said electric heat-generating circuit comprises:

at least more than one linear part passing the magnetic field to generate an induced electromotive force so that a current can flow in said circuit;

at least more than one heat-generating part supplied with the current generated by said linear part to generate heat; and

a curved part connecting said linear part and said heat-generating part.

8. (Original) The disc brake as defined in claim 7, wherein said linear part is radially formed around said disc.

9. (Canceled)

10. (Original) The disc brake as defined in claim 7, wherein each linear part is formed at a prescribed interval therebetween so that no two linear parts that show different directions of current flow under a magnetic field can simultaneously pass the magnetic field.

11. (Currently Amended) The disc brake as defined in claim 7, wherein, ~~in case said linear parts and said heat-generating parts are plurally installed,~~ said linear parts and said heat-generating parts are evenly distributed on said entire disc when said linear parts and said heat generating parts are plurally installed.

12. (Original) The disc brake as defined in claim 7, wherein said heat-generating parts are made of a hot wire material that generates heat when applied with current.

13. (Original) The disc brake as defined in claim 7, wherein said curved part is formed along a concentric circle route toward a circumferential direction of said disc.

14. (Canceled)

15. (Canceled)

16. (Canceled)